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Chapter 4 deals with the statistical mechanics of ideal quantum systems, in-cluding the Bose-Einstein condensation, the radiation field, and superfluids In Chapter 5, real gases and liquids are treated (internal degrees of free-dom, the van der Waals equation, mixtures) Chapter 6 is devoted to the

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Solutions of Selected Problems and Answers

Solutions of Selected Problems and Answers 785 Chapter 3 Problem 31s According to (31) the viscosity η is equal to $\mu\tau$,where μ is the shear mod- ulus and τ is a characteristic time of motion of each water molecule; τ is expected to be of the order of the period of molecular vibration T in ice: $\tau = c_1 T = 2\pi c_1 / \omega$,where $\omega = c_2 / m a_2$ B

LECTURE NOTES ON STATISTICAL MECHANICS

in statistical mechanics, and with some basic concepts from first-year graduate quantum, such as harmonic oscillators and raising and lowering operators Some of the material in Chapter 3 involves time-dependent perturbation theory, which is described in the notes here, but the terse

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Statistical Mechanics

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